

For Research Use Only

PHGDH Monoclonal antibody

Catalog Number: 67591-1-Ig **2 Publications**



Basic Information

Catalog Number: 67591-1-Ig	GenBank Accession Number: BC000303	Purification Method: Protein G purification
Size: 1100 µg/ml	GeneID (NCBI): 26227	CloneNo.: 1E8B8
Source: Mouse	UNIPROT ID: O43175	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:2000-1:8000 IF 1:200-1:800
Isotype: IgG1	Full Name: phosphoglycerate dehydrogenase	
Immunogen Catalog Number: AG6877	Calculated MW: 57 kDa	
	Observed MW: 57 kDa	

Applications

Tested Applications: IF/ICC, IHC, WB, ELISA	Positive Controls: WB : HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells IHC : human urothelial carcinoma tissue, IF : HeLa cells,
Cited Applications: WB	
Species Specificity: Human, Mouse, Rat	
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

PHGDH(D-3-phosphoglycerate dehydrogenase) is also named as 3-PGDH, PGDH3 and belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family. It catalyzes the transition of 3-phosphoglycerate into 3-phosphohydroxypyruvate, which is the first and rate-limiting step in the phosphorylated pathway of serine biosynthesis, using NAD⁺/NADH as a cofactor. 3-PGDH deficiency is a rare recessive inborn error in the biosynthesis of the amino acid L-serine characterized clinically by congenital microcephaly, psychomotor retardation, and intractable seizures(PMID:19235232).

Notable Publications

Author	Pubmed ID	Journal	Application
Yuming Zhu	35081364	Mol Cell	WB
Xinhui Lu	38159553	Int Immunopharmacol	WB

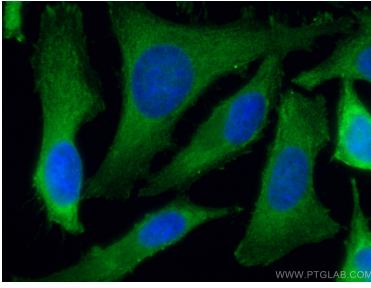
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

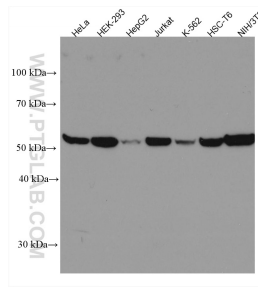
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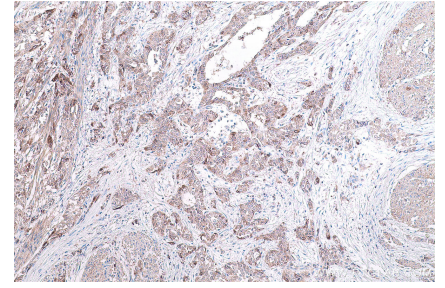
Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PHGDH antibody (67591-1-Ig, Clone: 1E8B8) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 67591-1-Ig (PHGDH antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 67591-1-Ig (PHGDH antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).